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TITLE: RADIOACTIVE-GAS CAPTURING FILTER

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## INVENTOR-INFORMATION:

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## ABSTRACT:

PURPOSE: To enhance the capturing property of radioactive gas and to make it possible to achieve the compact size of a filter by using active carbon, wherein the reaction product of polyethyleneimine and carbon disulfide or the quarternary product of the reaction product is added.

CONSTITUTION: This filter is constituted of an adsorbent, wherein the reaction product of polyethyleneimine and carbon sulfide is added into fibrous active carbon. The adsorbent is made to be the quarternary product with a compound, which is expressed by a general formula RX (R indicates an alkyl group or benzyl group, whose carbon number is 1-5, and X indicates halogen). The radioactive-gas capturing filter is constituted of this adsorbent. This filter adsorbs not only general radioactive gas but also the radioactive gas, whose main materials are iodine and organic iodine compound, at high adsorbing efficiency.

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